



# iPad mini 4 LTE Screen and Digitizer Replacement

Replace the fused LCD screen and digitizer in an iPad mini 4 LTE.

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## INTRODUCTION

Follow the steps in this guide to replace your iPad mini 4 display assembly, including the fused LCD and digitizer glass.

This procedure involves removing the screen then transferring the home button to your new assembly. In order to maintain Touch ID functionality **you must transfer your original home button to the new screen.**

Depending on your replacement part, you may also need to transfer the sleep/wake sensor for Smart Cover use, this portion of the procedure requires desoldering a cable.



### TOOLS:

- [iOpener](#) (1)
- [iFixit Opening Picks set of 6](#) (1)
- [Suction Handle](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)



### PARTS:

- [iPad mini 4 LCD Screen and Digitizer](#) (1)
- [iPad mini 4 Test Cable for LCD and Digitizer](#) (1)
- [iPad mini 4 Adhesive Strips](#) (1)

## Step 1 — Taping a Cracked Front Panel





- If your display glass is cracked, keep further breakage contained and prevent bodily harm during your repair by taping the glass.
- Lay overlapping strips of clear packing tape over the iPad's display until the whole face is covered. For particularly bad breaks, you may need to lay down two layers.
- ⓘ This will keep glass shards contained and provide structural integrity when prying and lifting the display.
- Do your best to follow the rest of the guide as described. However, once the glass is broken, it will likely continue to crack as you work, and you may need to use a metal prying tool to scoop the glass out.

**⚠ Protect your eyes!** This procedure **will** cause small pieces of glass to fly directly toward your face. **Do not attempt** without [safety glasses](#).

## Step 2 — iOpener Heating



-  We recommend that you clean your microwave before proceeding, as any nasty gunk on the bottom may end up stuck to the iOpener.
- Place the iOpener in the center of the microwave.
-  For carousel microwaves: Make sure the plate spins freely. If your iOpener gets stuck, it may overheat and burn.



## Step 3




- Heat the iOpener for **thirty seconds**.
- Throughout the repair procedure, as the iOpener cools, reheat it in the microwave for an additional thirty seconds at a time.

- ⚠ Be careful not to overheat the iOpener during the repair. Overheating may cause the iOpener to burst.
- ⚠ Never touch the iOpener if it appears swollen.
- ⚠ If the iOpener is still too hot in the middle to touch, continue using it while waiting for it to cool down some more before reheating. A properly heated iOpener should stay warm for up to 10 minutes.

## Step 4



- Remove the iOpener from the microwave, holding it by one of the two flat ends to avoid the hot center.

 The iOpener will be very hot, so be careful when handling it. Use an oven mitt if necessary.

## Step 5 — Opening Procedure




- Handling it by the tabs on either side, place the heated iOpener on the side of the iPad to the left of the home button assembly.
- Let the iOpener sit for about five minutes to soften the adhesive beneath the glass.

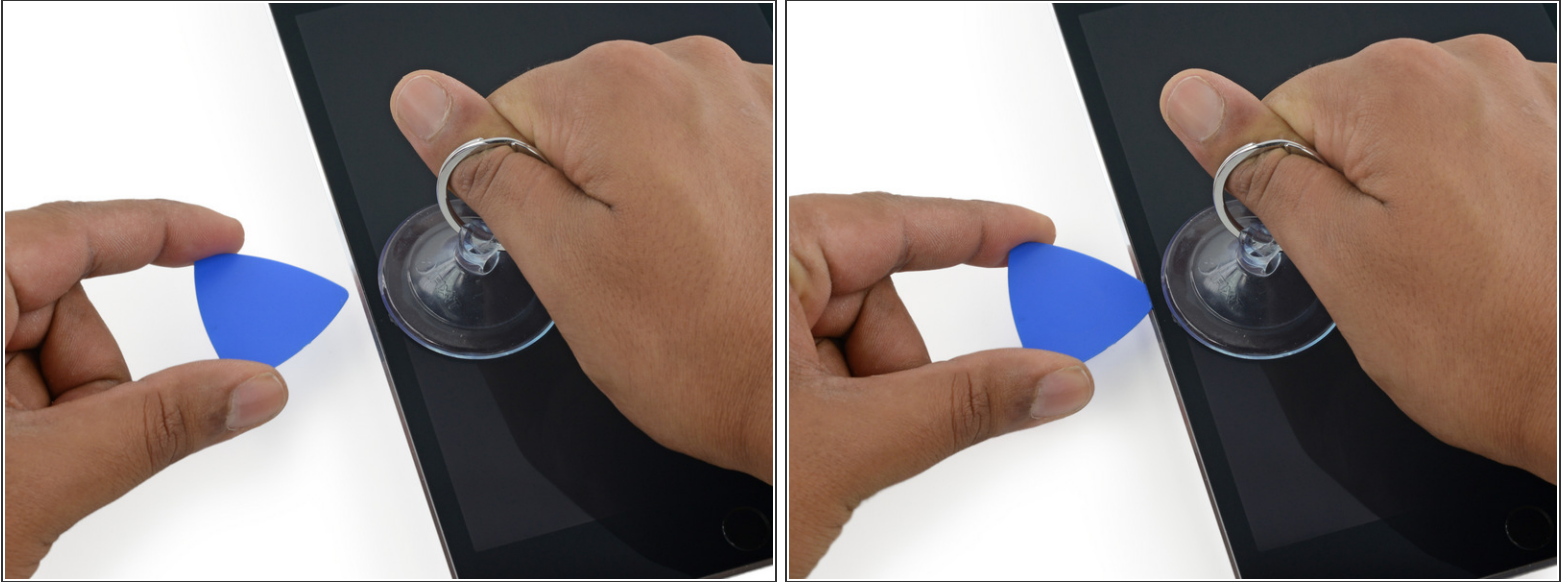
## Step 6




- Carefully place a suction cup halfway up the heated side.
- Be sure the cup is completely flat on the screen to get a tight seal.
- While holding the iPad down with one hand, pull up on the suction cup to slightly separate the front panel assembly from the rear case.

 Be careful to only lift the glass enough to insert an opening pick—any more and you risk cracking the glass.

## Step 7




- While holding the glass up with the suction cup, slide the point of an opening pick into the gap between the glass and body of the iPad.

 Don't insert the opening pick any deeper than the black bezel on the side of the display. Inserting the pick too far may damage the LCD.

## Step 8




- Reheat and reapply the iOpener.
  -  Be careful not to overheat the iOpener during the repair procedure. Always wait at least ten minutes before reheating the iOpener.
- Let it rest for a few minutes to reheat the left edge of the iPad.



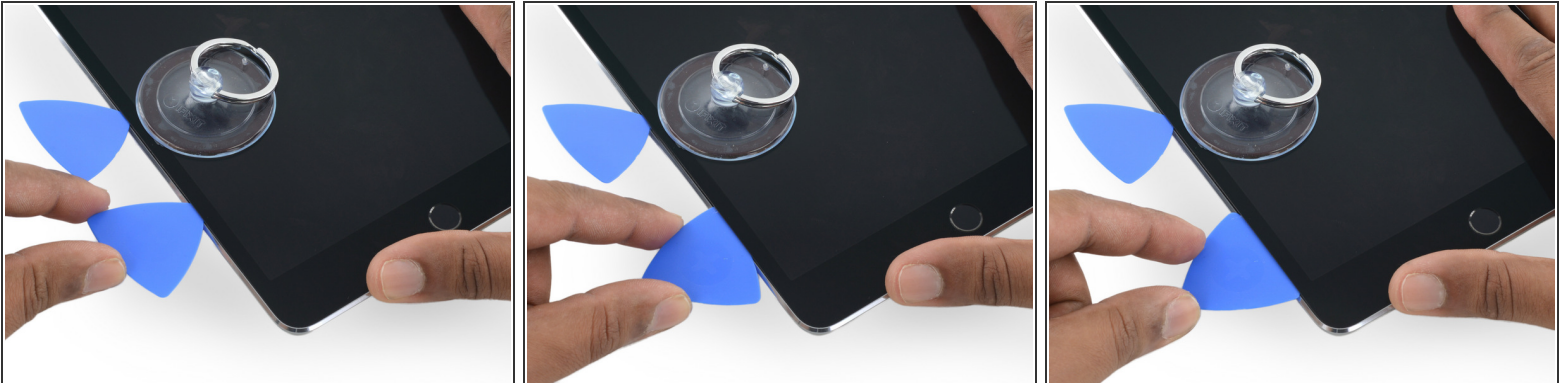
## Step 9



- Place a second opening pick alongside the first and slide the pick down along the edge of the iPad, releasing the adhesive as you go.

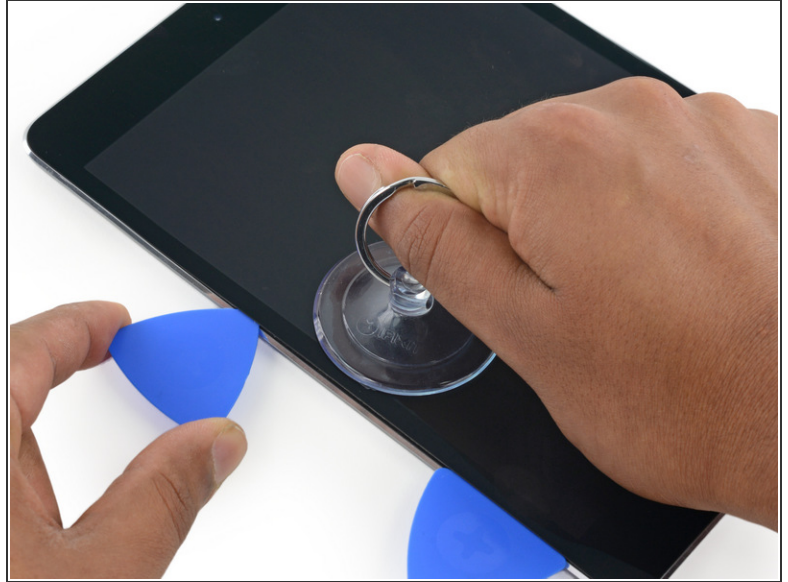
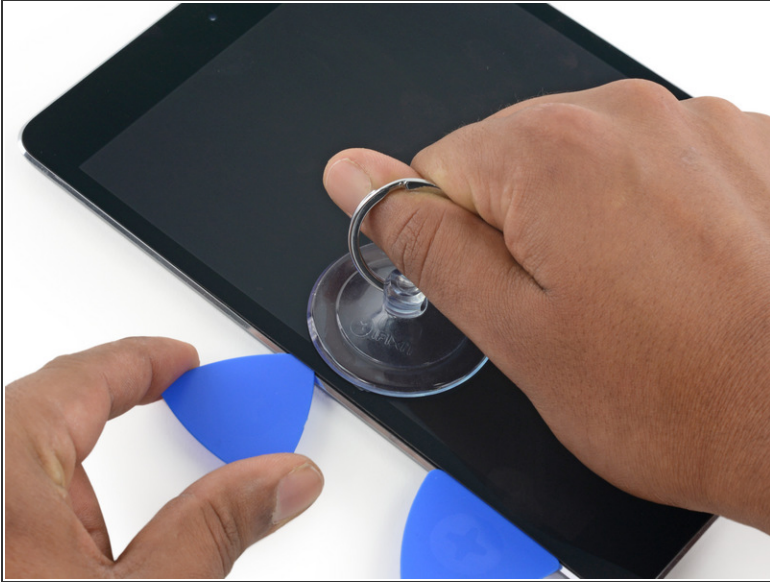
 Throughout the rest of the procedure, if you encounter significant resistance to sliding picks beneath the glass, stop and reheat the section you're working on. Applying too much pressure with the pick can crack the glass.

## Step 10



- Continue moving the opening pick down the side of the display to release the adhesive.
- If the opening pick gets stuck in the adhesive, "roll" the pick along the side of the iPad, continuing to release the adhesive.

## Step 11



- Take the first pick you inserted and slide it up toward the top corner of the iPad.

## Step 12



- Reheat the iOpener and place it on the top edge of the iPad, over the front-facing camera.
  - ⚠ Be careful not to overheat the iOpener during the repair procedure. Wait at least ten minutes before reheating the iOpener.
- If you have a flexible iOpener, you can bend it to heat both the upper left corner and the upper edge at the same time.

## Step 13



- Slide the opening pick around the top left corner of the iPad to separate the adhesive.

## Step 14



- Slide the opening pick along the top edge of the iPad, stopping just before you reach the camera.
  - As you reach the front-facing camera, pull the pick out slightly and continue sliding it across the top edge.
- ⚠ Avoid sliding the opening pick over the front-facing camera, as you may smear adhesive onto the lens or damage the camera. The following steps will detail how to best avoid disturbing the front-facing camera.

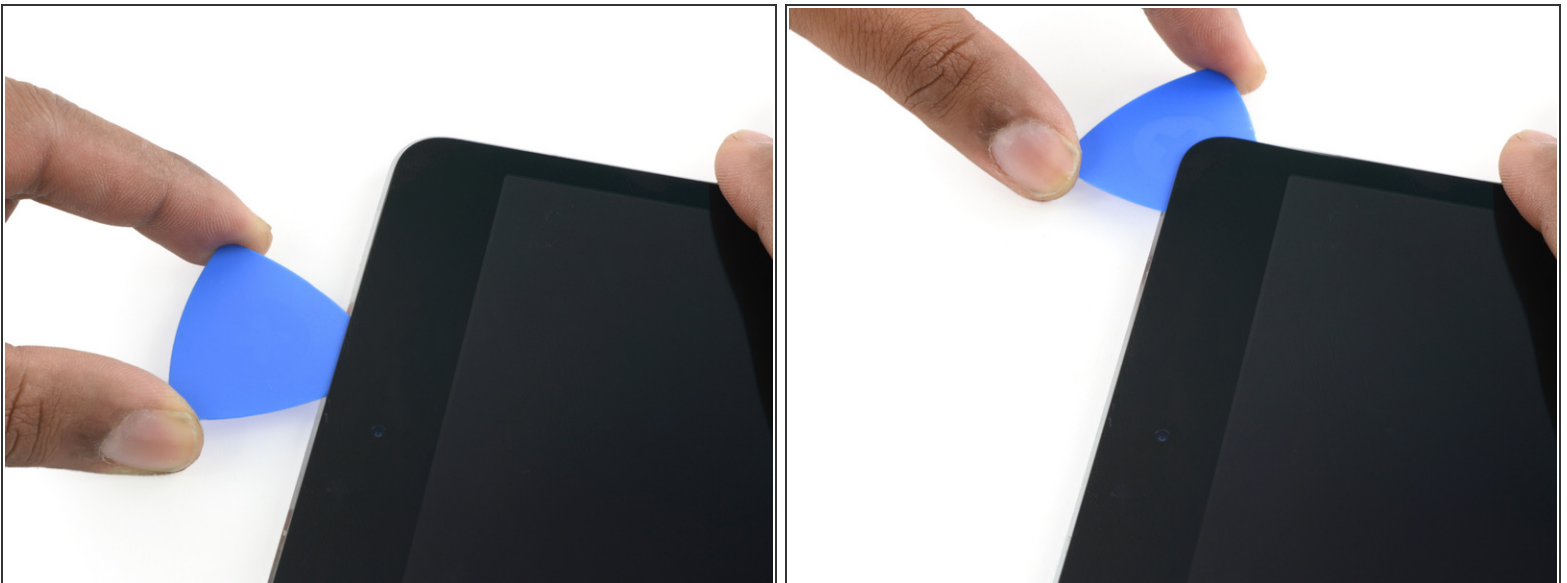


## Step 15



- Leave the opening pick in the iPad slightly past the front-facing camera.
- Take a second pick and insert it to the left of the camera, where the first pick just was. Slide it back to the corner to completely cut any remaining adhesive.
- Leave the second pick in place to prevent the corner adhesive from re-sealing as it cools.

## Step 16



- Insert the previous pick deeper into the iPad and slide it away from the camera toward the corner.

## Step 17



- Leave the three picks in the corners of the iPad to prevent re-adhering of the front panel adhesive.
- Reheat the iOpener and place it on the remaining long side of the iPad —along the volume and lock buttons.

## Step 18



- Insert a new opening pick and slide it down the right edge of the iPad, releasing the adhesive as you go.

## Step 19



- Continue sliding the opening pick down the right edge of the iPad, reheating the edge using an iOpener if necessary.

## Step 20



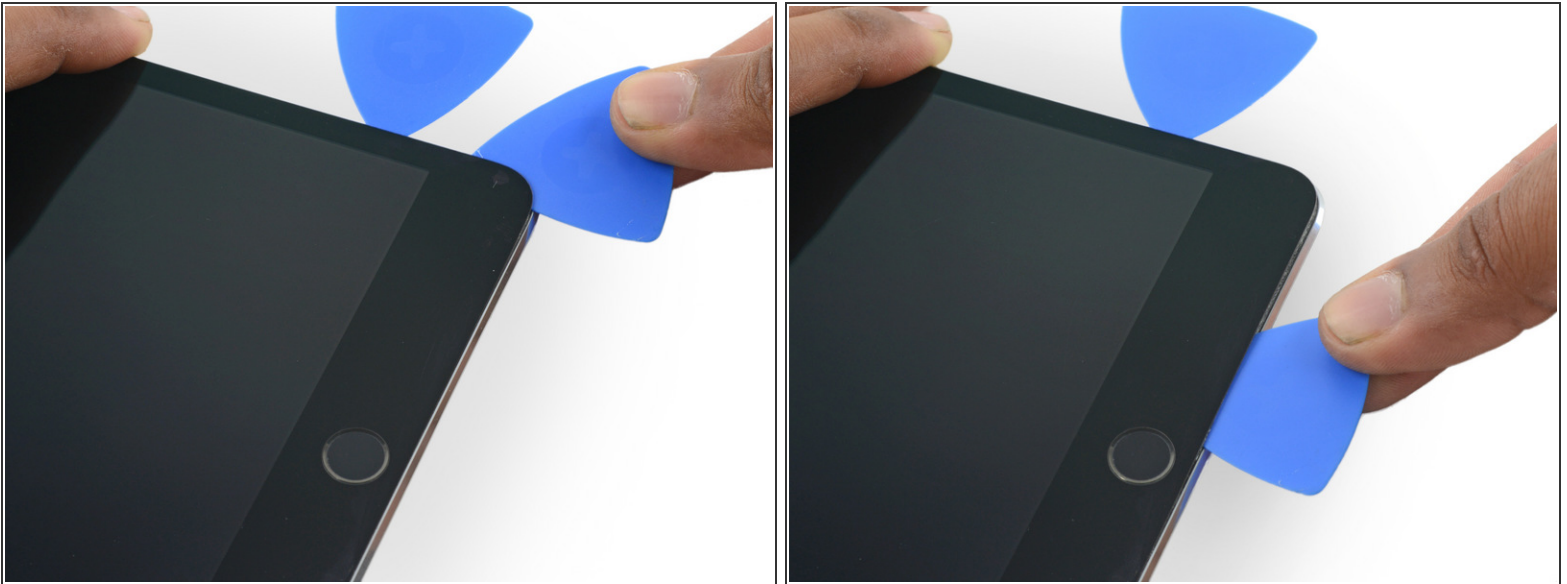
- Leave the opening picks in place and reheat the iOpener.
- ⚠ Remember not to overheat the iOpener—no more than once every ten minutes.
- Set the reheated iOpener on the home button end of the iPad and let it rest for a few minutes to soften the adhesive beneath the glass.

## Step 21



- Insert a new opening pick at the bottom right corner of the display, below the last opening pick you used to slice down the right edge.
- Rotate the new pick around the lower right corner of the device.

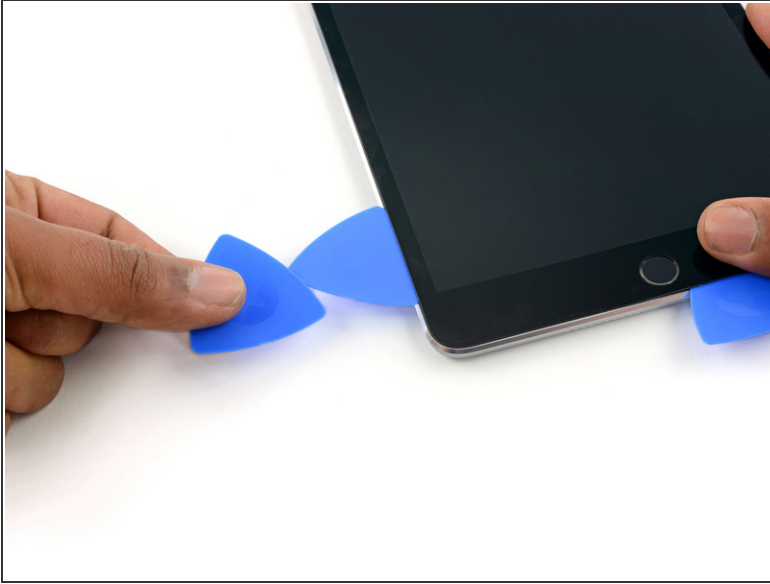
## Step 22



- Slide the pick from the bottom right corner along the lower edge of the device. Stop about half an inch shy of the home button.

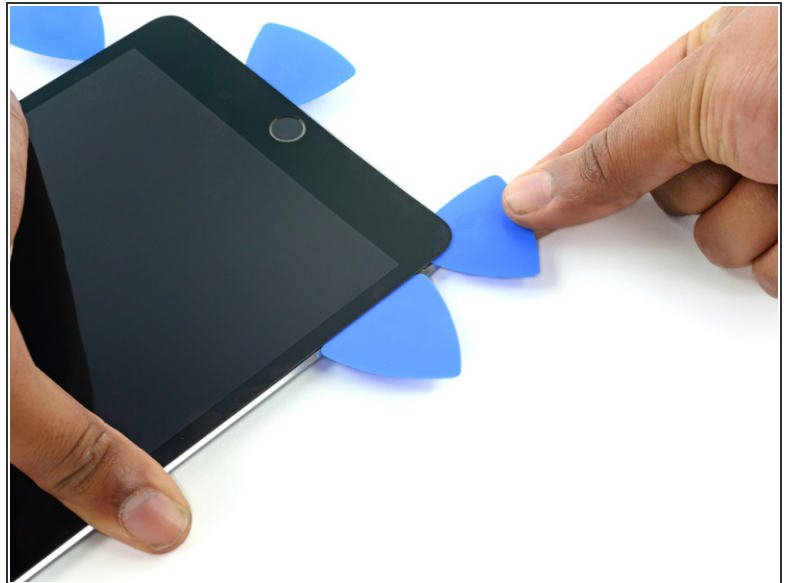


## Step 23



- Insert a final opening pick at the lower left corner of the iPad, directly below the existing one.

## Step 24



- Slide the pick around the lower left edge of the iPad.

## Step 25



- Continue sliding the pick at the lower left edge of the display toward the center of the iPad, until it is roughly half an inch from the home button.

## Step 26



- Twist the two picks at the top edge of the iPad to break up the last of the adhesive holding the display assembly in place.
- Lift the display from the top edge to open the device.

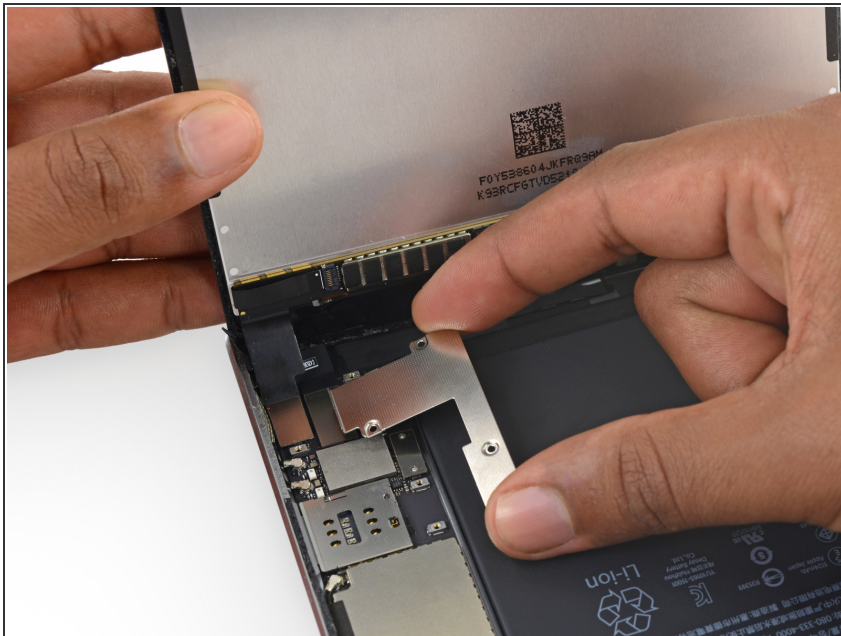
## Step 27 — Battery Connector



**i** To avoid stressing any cables, hold the display assembly perpendicular to the body of the iPad until it is disconnected.

- Remove the four 1.2 mm Phillips screws over the battery/display connector bracket.

## Step 28





- Remove the battery/display cable bracket.

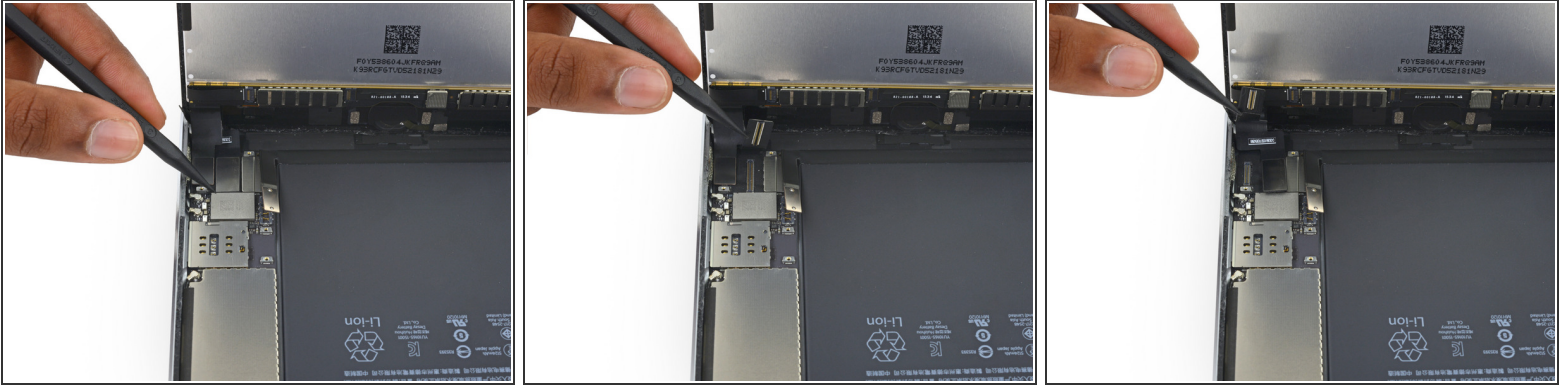


## Step 29



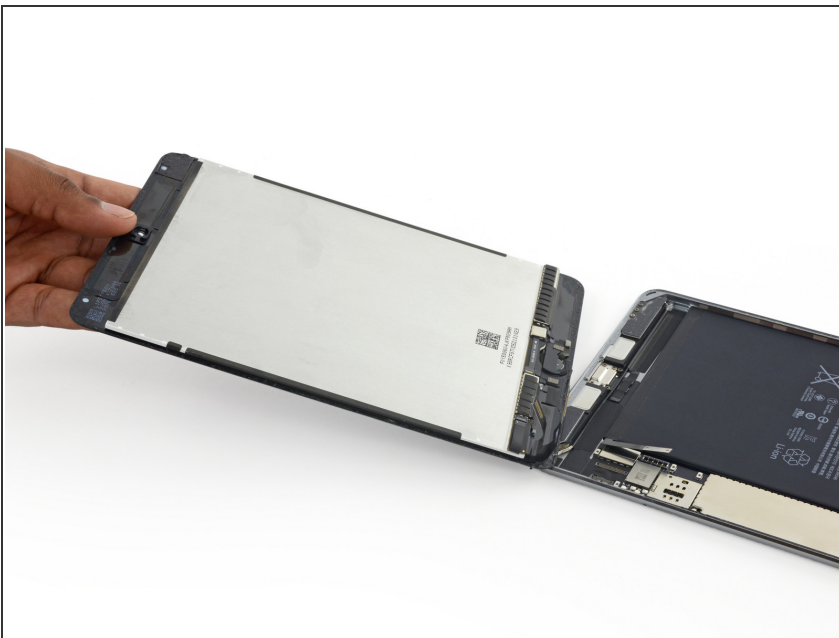
-  When disconnecting any press connectors from the logic board, be sure to lift the connector straight up to avoid ripping the socket off the board.
- Use the flat tip of a spudger to disconnect the battery connector from its socket on the logic board.
  -  Bend the battery connector ribbon cable up slightly to prevent it from making contact and powering on the iPad.

## Step 30 — Display Assembly



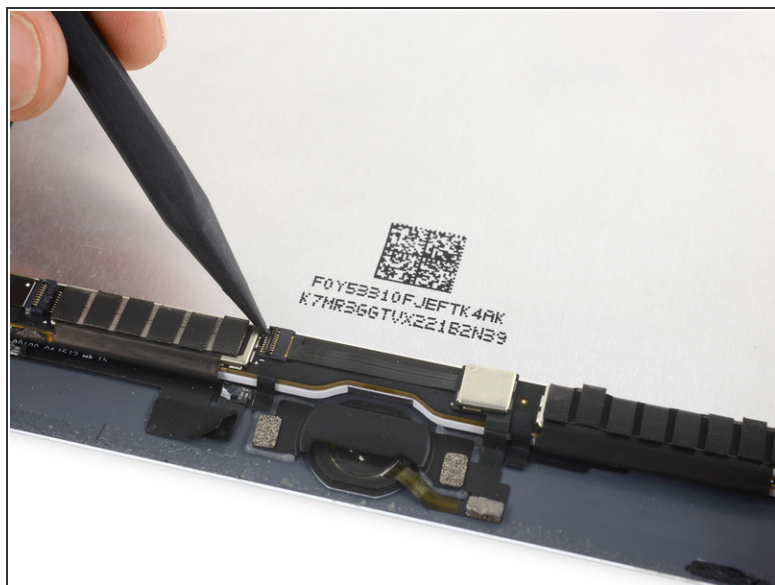
- Use the pointed end of a spudger to disconnect the display data connector from its socket on the logic board.
  - Use the pointed end of a spudger to disconnect the digitizer cable connector from its socket on the logic board.
- ✦ When reconnecting these, press down from one end of the connector to the other. If you press in the middle of the connector, you may bend it, causing damage or a poor connection.

## Step 31



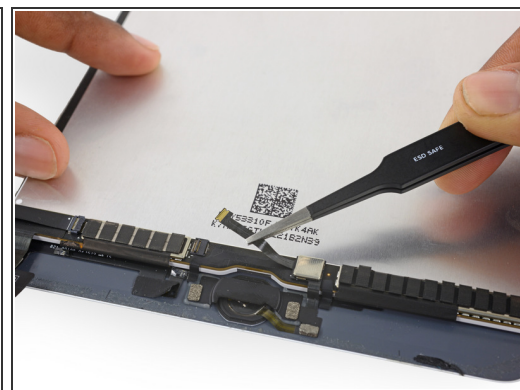
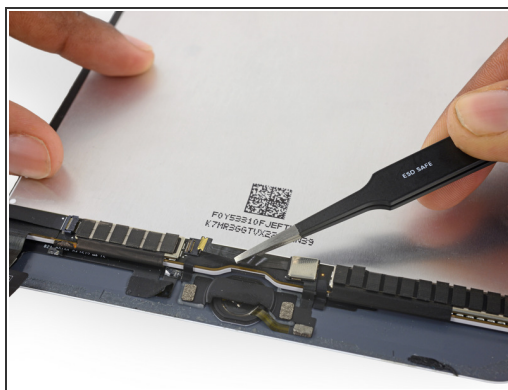
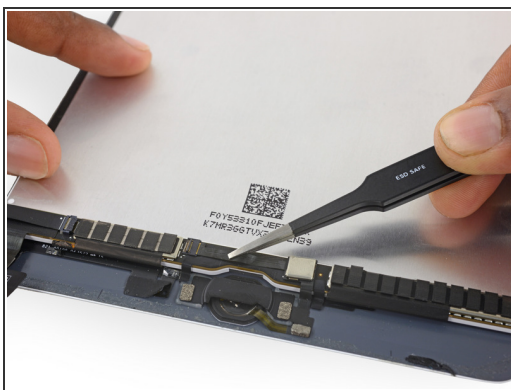
- Remove the display assembly.

## Step 32 — Home Button Assembly



- Use the pointed tip of a spudger to flip up the retaining flap on the home button ZIF socket.

## Step 33



- Use tweezers to unplug the home button ribbon cable from the ZIF socket.
- Continue peeling the ribbon cable up to the EMI shield.

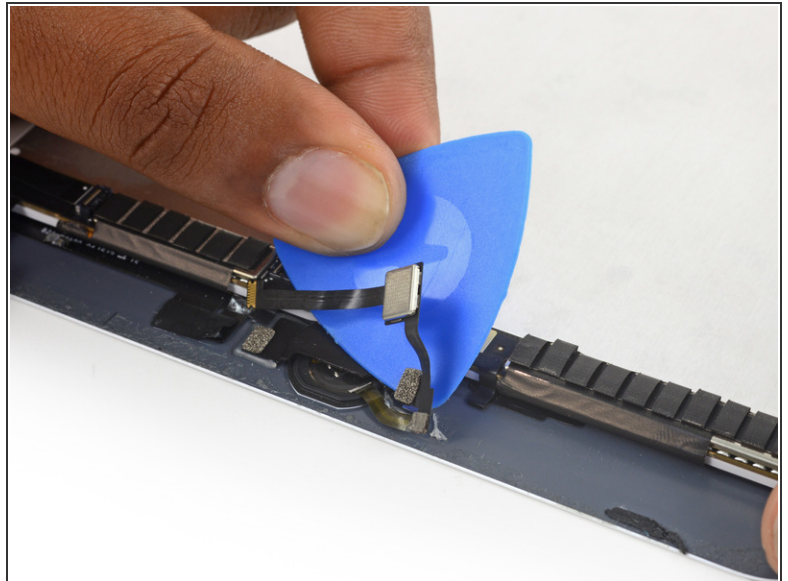
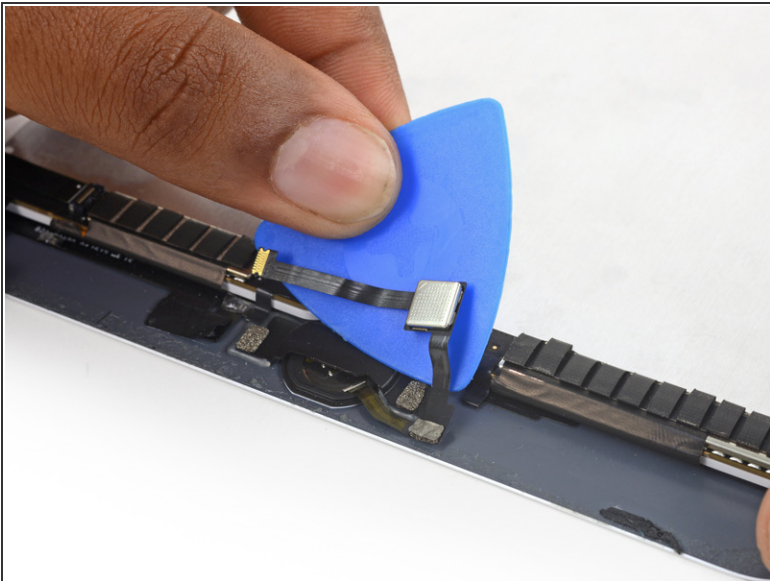


## Step 34



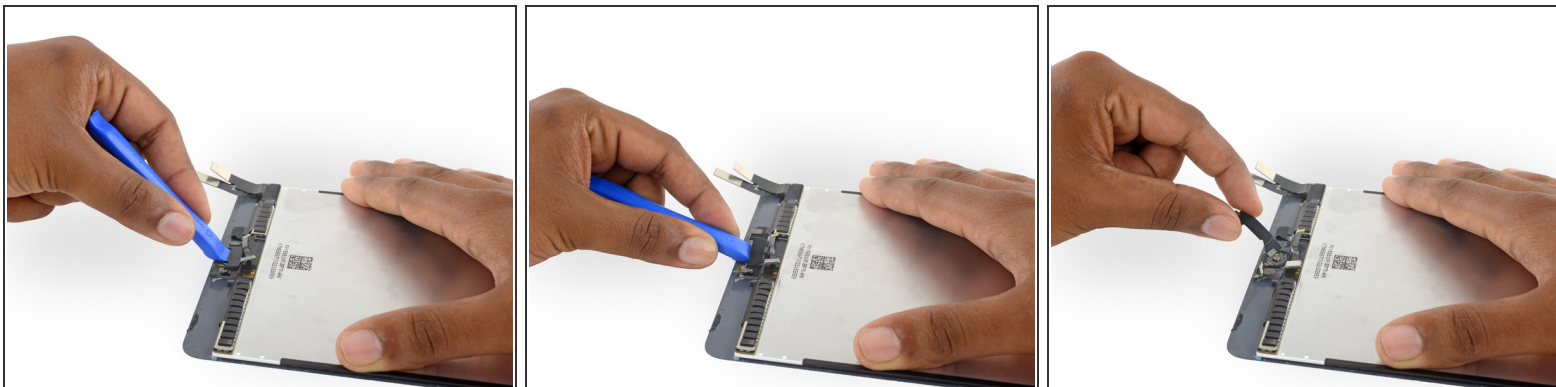
- Use tweezers to lift the home button control hardware module off the display assembly.

## Step 35



- Use an opening pick to continue separating the home button ribbon cable from the display assembly.
- ⓘ If you use metal tools to separate this cable, you may scratch the iPad glass, removing some paint.

## Step 36



- Use a plastic opening tool to pry the home button bracket off the display assembly.
- ★ When replacing this bracket, it's recommended to use some high-bond tape to secure it.

## Step 37



- Heat an iOpener and lay it over the lower edge of the front panel to soften the adhesive holding the home button in place.

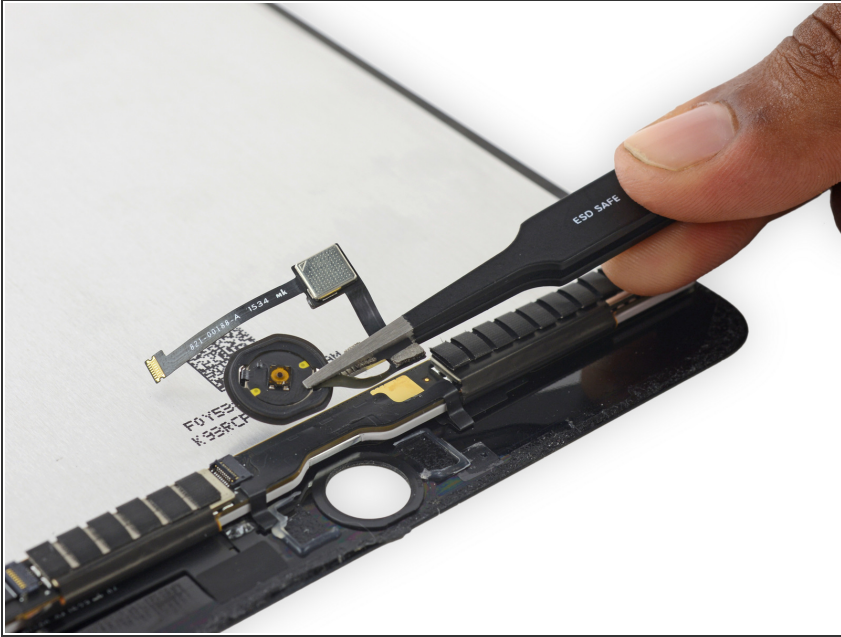
## Step 38



- ⓘ The home button is held in place by a thin, delicate, rubber gasket that is mildly adhered to the front panel.
- Slowly push the home button up and out of the display assembly to separate the gasket from the front panel.
- ⚠ Be careful to not push the gasket past its tearing point. If the adhesive is adequately heated, it will separate from the front panel with some gentle pressure.

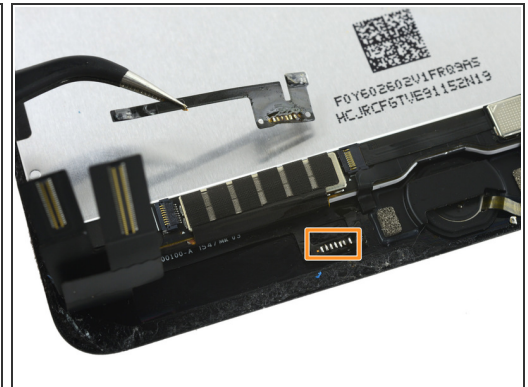
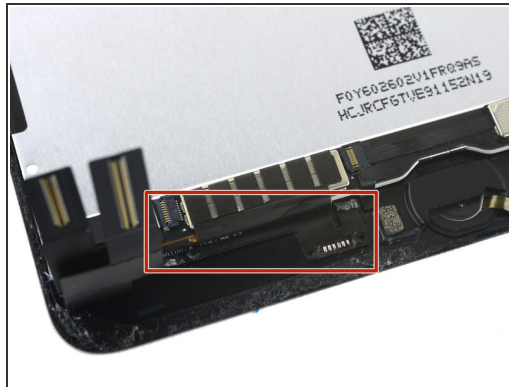


## Step 39



- Remove the home button assembly.

## Step 40 — Screen and Digitizer



- Examine your replacement part, and your original display carefully to be sure they match.
- Your replacement screen may be missing the sleep/wake sensor that is necessary for Smart Cover use. If you want to maintain functionality you will need to transfer the component.
- Desolder the six solder pads from the lower left of the display to remove the sensor assembly cable.

To reassemble your device, follow these instructions in reverse order.



